import re

from collections import Counter

def extract\_keywords(text, num\_keywords=5):

cleaned\_text = re.sub(r'[^a-zA-Z\s]', '', text.lower())

words = cleaned\_text.split()

word\_frequencies = Counter(words)

top\_keywords = word\_frequencies.most\_common(num\_keywords)

return top\_keywords

if \_\_name\_\_ == "\_\_main\_\_":

text = "Natural language processing is a subfield of artificial intelligence that focuses on the interaction between computers and humans using natural language."

keywords = extract\_keywords(text, num\_keywords=5)

if keywords:

print("Top Keywords:")

for keyword, count in keywords:

print(f"{keyword}: {count}")

else:

print("No keywords found.")